

**An Analysis of Green Technology Innovation:
A Case Study of Green New Deal Policy Initiative in South Korea 2009**

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Main Questions of the Research:

The central focus of the research is a discussion of the dynamics of national R&D policy analysis and evaluation, especially the examination of the deliberative process in Green Technology (GT) innovation policy formation using a case study of the S. Korea Green New Deal policy initiative. The Green New Deal policy initiative is a new policy agenda launched by President Myung-Bak Lee's administration to deal simultaneously with environmental and economic challenges by promoting "low-carbon green growth" beginning in 2009 (Kim & Jung, 2009).

The primary research questions are as follows: What is meant by the Green New Deal? What aspects need to be considered when formulating and implementing the Green New Deal policy? What are the constraints/criticisms of the Green New Deal policy? How green science and technology innovation should be promoted? How to harmonize all GT R&D efforts in various research fields? How can economic and environmental goals be achieved simultaneously through GT innovation? How much would the democratic aspects of the Science, Technology & Innovation (STI) policy process contribute to the establishment of tools for analyzing GT innovation policy?

Research Methods:

The main research method I would use is to apply the deliberative policy analysis model proposed by Hajer and Wagenaar, which emphasizes the role of actors in the networks of governances including political elitists as well as citizens (Hajer & Wagenaar, 2003), into the analysis of the democratic aspects and the performativity of S. Korea Green New Deal policy initiative. Considering the broad impacts of GT development on society, projecting the various inputs from society into the GT innovation policy process is required.

Moreover, dealing with the public's uneasiness toward scientific and technological innovation in the fields of energy or environment needs to be addressed when designing STI policy initiatives (Felt, et al., 2007). In other words, the democratic dimension is a critical aspect of the GT innovation process. Thus the deliberative policy model focusing on the connections between democracy and public policy analysis (Hajer, 2004) would be useful to analyze and evaluate the Green New Deal policy case.

Research data will be collected through documentary analysis regarding the S. Korea Green New Deal policy and comparative research on GT innovation in the European Union and the United States. More specifically, I will compare performativity

as a new STI policy analysis indicator showing the level of deliberative dimension in the GT innovation policy process across the European Union, the United States, and South Korea. Interviews with researchers whose research interests include GT innovation policy or who are directly/indirectly involved in designing S. Korea Green New Deal policy initiative project will be conducted as well.

Preliminary Results:

The Green New Deal policy initiative launched in S. Korea provides an opportunity to examine a new form of integration between the socio-cultural aspects of S&T innovation and STI policy formation. The application of the deliberative policy analysis model to the process of formulating and implementing the green science and technology innovation policy demonstrates the performativity and democratic aspects of this new integration. This study suggests STI policy strategies which emphasize the role of the public in GT innovation process may prove more effective than those which focus solely on pushing technologies.

To support my arguments, I propose that an adoptive and reflective “Innovation-Governance” (Felt, et al., 2007) approach be implemented by emphasizing the open and democratized GT innovation policy process. This approach will also be critical for dealing with the complexity of the synergetic aspects in joint green science and technology R&D projects combining multiple research disciplines under the Green New Deal policy initiative. Several policy recommendations including a Green Scientific Citizens will be proposed as well.

References

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